ISSN 0013-8908

THE ENTOMOLOGIST'S MONTHLY MAGAZINE

World List Abbreviation, 4th ed. (1963): *Entomologist's mon. Mag.*

EDITED BY
Prof. Sir Richard SOUTHWOOD, D.Sc., F.R.S., F.R.E.S.
Prof. M. G. MORRIS, Ph.D., F.I.Biol., F.L.S., F.R.E.S.
K. G. V. SMITH, C.Biol., F.I.Biol., F.L.S., F.R.E.S.
J. W. ISMAY, B.Sc., Ph.D., F.R.E.S.
P. M. HAMMOND, M.A., F.R.E.S.
W. R. DOLLING, B.Sc., F.R.E.S.

CAB INTERNATIONAL
Library Services
26 FEB 1998

VOLUME 132

'J'engage donc tous à éviter dans leurs écrits toute personnalité, toute allusion dépassant les limites de la discussion la plus sincère et la plus courtoise.' — *Laboulbène.*

THE ENTOMOLOGIST'S MONTHLY MAGAZINE
BRIGHTWOOD
BRIGHTWELL, WALLINGFORD, OXON OX10 0QD
1996

Published by Gem Publishing Company

CONTENTS

CONTRIBUTORS iii
GENERAL INDEX iv
SPECIAL INDEX –
ARACHNIDA vii
COLEOPTERA vii
DIPTERA x
HEMIPTERA xiii
HYMENOPTERA xiv
LEPIDOPTERA xvi
MANTODEA xvi
ORTHOPTERA xvii
PHTHIRAPTERA xvii
THYSANOPTERA xvii
TRICHOPTERA xvii
GROUPS OTHER THAN INSECTA AND ARACHNIDA xvii
ERRATA AND CORRIGENDA xvii

DATES OF PUBLICATION

January/February/March/April	29th March 1996
May/June	8th July 1996
July/August	29th July 1996
September/October/November/December	29th November 1996

INDEX

This index covers the year 1996 (Vol. **132**). Items on the wrappers are indicated by Roman numerals. Prepared by Mrs A.V. Smith.

INDEX TO CONTRIBUTORS

Ackland, D.M., 17
Archer, M.E., 35
Ashby, J.E., 72
Ashe, P., 290, 314
Baldwin, A.J., 311
Beaver, R.A., 303
Bell, J., 16
Bičik, V., 305
Blackman, R.L., 16
Bowden, J., 298, 310
Cameron, E.A., 177
Cole, J., 68, 310
Cook, A.A., 151
Cooper, M., 23, 183, 273
Cooter, J., 87, 91, 205
de Rougemont, G., 90
Dolling, W.R., 49, 75, xxi
Edwards, M., 291
Else, G.R., 291
Entwistle, P.F., 186, 195
Forrester, G.J., 176
Freeman, P., 51
Graham, M.W.R. de V., 33, 61, 197, 285
Harkness, M., 63
Harkness, R., 63
Haughton, A., 16
Heatwole, H., 280
Hillyard, P.D., 54
Holloway, J., 149
Hopkins, G.W., 185
Hughes, J., 195
Itô, Y., 11
James, R., 73
Jones, R.A., 304
Lansbury, I., 45, 55
Láska, P., 305
Laurence, B.R., 73
Loomans, J.M., 177
Luff, M.L., 29
Moore, R., 67
Morgan, M.J., 60, 287
Morris, M.G., 196, 289
Naeem, M., 281
Nagatomi, A., 95
O'Connor, J.P., 290, 314
Plant, C.W., 313
Polaszek, A., 204
Pont, A.C., 17
Pontin, A.J., 184, 290
Prance, D.A., 176
Prince, A.J., 299
Redgate, N.D., 69
Robinson, N.A., 22, 31
Shaw, M.R., 204
Shelley, R.M., 280
Smith, K.G.V., 15, 48, 54, 76, 90, 150, 176, xxi
Stubbs, A.E., 10, 72
Teulon, D.A.J., 177
Triltsch, H., 175
Verdcourt, B., 47
Welch, R.C., 93
Whitehead, P.F., 187, 286
Williams, D.J., 1
Wood-Baker, C.S., 185
Yousuf, M., 281

GENERAL INDEX

Australian record of the centipede *Asanada brevicornis* Meinert (Scolopendromorpha), A second, 280
Bedfordshire, *Bibloplectus tenebrosus* (Reitt.) (Col., Pselaphidae) in a damp woodland site in, 72
Berkshire, *Callicera aenea* (F.) (Dipt., Syrphidae) at Maidenhead, 47
British Checklist of *Menacanthus* Neumann, 1912 (Phthiraptera, Amblycera, Menoponidae), with particular reference to those species found on the Passeriformes (Aves), Amendments to, 69
British *Formica rufibarbis* F. (Hym., Formicidae) is not a hopeless case yet, 290
British insect, *Leiodes pallens* (Sturm, 1807) (Col., Leiodidae) not a, 87
British Leiodinae (Col., Leiodidae), annotated keys to the, 205–272
British List of Diptera, *Corynoptera stammeri* (Lengersdorf) (Sciaridae) and *Colobostema infumatum* (Haliday) (Scatopsidae) from Wales: new to the, 73
British site for *Prosopantrum flavifrons* (Tonnoir & Malloch) (Dipt., Heleomyzidae), a second, 310
British species of *Colon* Herbst (Col., Leiodidae), a note on the late D.K. Kevan's 1947 revision of the, 91
British species, *Delia kullensis* (Ringdahl, 1933) (Dipt., Anthomyiidae) confirmed as a, 17
Calcareous grassland Auchenorrhyncha (Hemiptera), the hostplants of, 151
East African species of *Rhegmoclema* (Dipt., Scatopsidae) from Kilimanjaro, a new, 51
England, *Graptopeltus lynceus* (F.) (Hem., Lygaeidae) in North West, 16
Essex, some muscid flies (Diptera from N.E., 298; two noteworthy Tachinidae (Diptera) from N.E., 310
European species of the genus *Oxysychus* Dalucchi (Hym., Pteromalidae), a new, 61
Fecundity of *Subcoccinella vigintiquattourpunctata* (L.) (Col., Coccinellidae), effect of over-wintering conditions on, 311
France, a record of *Stephanus serrator* (F.) (Hym., Stephanidae) from S.W., 204; entomological notes on La Crau (Bouches du Rhône), including a list of Hymenoptera Chalcidoidea and description of a new species, 197
Hampshire, *Stilpon sublunata* Collin (Dipt., Empididae) in, 176
Honeybees (*Apis mellifera* L.), the total destruction of a hive of, by the wasp *Dolichovespula media* (Retzius) (Hym., Vespidae), 286
Identity of *Cimex aequinoctialis* Scopoli (Hem., Delphacidae), 49; of *Ichneumon cyniphidis* Linnaeus, 1758 (Hym.) with a possible solution, the problem of, 33; the species of the subgenus *Chrysoideus* De Stefani, 1898 (Hym., Torymidae), 285
Ireland, a first record of *Anthrenus (Helocrus) fuscus* Olivier (Col., Dermestidae) from, 290
Irish species, *Elasmostethus tristriatus* (F.) (Hem., Acanthosomatidae), confirmed as an, 314
Isle of Raasay, Scotland, further notes on the Coleoptera of, 67
Lancashire, J.D. Ward's records of *Osmia xanthomelana* (Kirby, 1802) (Hym., Megachilidae) at Grange-over-Sands (VC 69) in 1920 and 1924, 22; observations of *Osmia parietina* Curtis (Hym., Megachilidae) in, 31
Longevity of ant queens in laboratory nests, 184
Male of *Pseudocaramines alfkeni johnsoni* (Cameron) (Hym., Vespidae, Eumeninae), 183
Manx List of Coleoptera, further additions to the, 29
Middlesex, a further locality for *Norellia spinipes* (Mg.) (Dipt., Scathophagidae), 54; *Chyliza nova* Collin (Dipt., Psilidae) in North London, 15; *Leopoldius brevirostris* (Germar) (Dipt., Conopidae) in North London, and a correction, 90; *Wagneria gagatea* R.-D. (Dipt., Tachinidae) in North London, 176
Mite parasitizing *Coccinella septempunctata* L. (Col., Coccinellidae), 175
Mealybug genus *Ferrisia* Fullaway (Hem., Pseudococcidae), a synoptic account of, 1
New species of *mendax* group of *Mischocyttarus* (Hym., Vespidae, Polistinae), 273
Nottinghamshire, the Aculeate wasps and bees (Hym., Aculeata) of Sherwood Forest in, and the development of a National Quality Assessment scheme, 35
OBITUARY — Horace Rupert Last, 77

Orkney, *Sinodendron cylindricum* (L.) (Col., Lucanidae) in, 93
Oviparous female of *Periphyllus obscurus* Mamontova (Hem.-Hom., Aphidoidea, 185
Pakistan, Mantodea (Dictyoptera) from the Punjab Province of, 281
Papua New Guinea, two new species of *Ciliometra* Polhemus (Hem., Gerridae) from, 55
Phylogeny of the Orthorrhaphous Brachycera (Diptera), an essay on, 95
Problem of the species *Dasysyrphus venustus* (Zetterstedt) and *D. hilaris* (Meigen) (Dipt., Syrphidae) on the, 305 [see errata]
Relation between site of an ant's nest (*Cataglyphis bicolor* Fab.) and a major source of food, 63
REVIEWS — Apicultural Abstracts OnLine, ix; **Denton, M.L.**, 1995, The Beetles of the Spurn Peninsula, 196; **Edington, J.M. & Hildrew, A.G.**, 1995, A revised key to the caseless caddis larvae of the British Isles, with notes on their ecology (FWBA), xv; **Elliott, J.M.**, 1996, British Freshwater Megaloptera and Neuroptera: a key with ecological notes (FWBA), xv; **Evenhuis, N.L.**, 1994, Catalogue of the Fossil Flies of the World, 150; Feltwell, J., 1995, The Conservation of Butterflies in Britain, 313; **Fuller, M.**, 1995, The Butterflies of Wiltshire, xxi; **Grayson, A.**, 1995, The Horseflies of Yorkshire, 72; **Hänggi, A., Stockli, E. & Nentwig, W.**, 1995, Habitats of Central European Spiders (*Misc. Faunistica Helvetiae*, 4), 54; **Hodge, P.J. & Jones, R.A.**, 1995, New British Beetles, species not in Joy's Practical Handbook, 289; **Merritt, R., Moore, M.W. & Eversham, B.C.**, 1996, Atlas of the Dragonflies of Britain and Ireland (Institute of Terrestrial Ecology), xv; **Millar, I.M.**, 1994, A Catalogue of the Aphids (Homoptera: Aphidoidea) of Subsaharan Africa (Plant Protection Research Institute, Handbook No. 4), 16; **Miller, P.L.**, 1995, Dragonflies (*Naturalists' Handbooks*), xv; **Moulet, P.**, 1995, Hémiptères Coreoidea Euro-Méditerranéens (*Faune de France*), xxi; **Mound, L.A. & Moritz, G.**, 1995, CABIKEY to Common Thysanoptera of Europe (CAB International), v; **Oertli, B. & Pongratz, E.**, 1995, Les Odonates (Libellules) du Canton de Genève, Atlas de Répartition et Mesures de Conservation (Centre Suisse de Cartographie de la Faune), ix; **Olmi, M.**, 1994, The Dryinidae and Embolemidae) of Fennoscandia and Denmark (*Faun. Ent. Scand.*), 204; **Parsons, M.S.**, 1995, A Review of the Scarce and Threatened ethmine, stathmopodine and gelechild moths of Great Britain (JNCC), ix; **Pfeffer, A.**, 1955, Zentral- und Westpaläarktischen Borken- und Kernkäfer (Col., Scolytidae, Platypodidae), 303; **Pont, A.C.**, 1995, The Type Material of Diptera (Insecta) described by G.H. Verrall and J.E. Collin, 48; **Redfern, M.**, 1995, Insects and Thistles (Naturalists' Handbooks), 76; **Sasa, M. & Kikuchi, M.**, (eds), 1995, Chironomidae (Diptera) of Japan, 150; **Schuh, R.T. & Slater, J.A.**, 1995, True Bugs of the World (Hemiptera: Heteroptera), Classification and Natural History, 75; **Scriber, J.M., Tsubaki, Y. & Lederhouse, R.C.**, 1995, Swallowtail Butterflies: their ecology and evolutionary biology, 149; **Weinberg, M. & Bächli, G.**, 1995, Diptera Asilidae) (*Insecta Helvetica*), 10; **Yeo, P.F. & Corbet, S.A.**, 1995, Solitary Wasps (*Naturalists' Handbooks*), 76
River Erme Estuary, a remarkable locality for staphylinid beetles, 90
Scotland, further notes on the Coleoptera of the Isle of Raasay, 67; *Monoctenus juniperi* L. (Hym., Diprionidae) in Sutherland, 195; *Oscinimorpha sordidissima* (Strobl) (Dipt., Chloropidae) in, 68; *Xyela longula* (Dalman) (Hym., Xyelidae) in Sutherland, 186
Scottish Highlands, observations on *Osmia inermis* Zetterstedt and *O. uncinata* Gerstäcker (Hym., Apidae) in the central, 291
Sherwood Forest, Nottinghamshire, the Aculeate wasps and bees (Hym., Aculeata) of, and the development of a National Quality Assessment scheme, 35
Somerset Levels, *Lasius platythorax* Seifert 1991 (Hym., Formicidae) on the, with notes on distinguishing the male from that of *Lasius niger* (L.), 299
Subgenus *Monogynoecus* Richards of *Mischocyttarus* de Saussure (Hym., Vespidae, Polistinae) with descriptions of two new species, 23
Surrey, *Gyrophaena pulchella* Heer (Col., Staphylinidae) recorded recently from, 176; *Ptinus sexpunctatus* Panz. (Col., Ptinidae) indoors in South London, 304
Swarm-founding of a nest of the Neotropical eusocial wasp *Parachartergus smithii* (de Saussure) (Hym., Vespidae, Polistinae), early process of, 11

Types of *Notonecta halophila* Edwards (Hem., Notonectidae), notes on the, 45
Univoltine Thysanoptera parasitoids *Ceranisus menes* Walker and *C. pacuvius* Walker (Hym., Eulophidae), in search of the, 177
Wales, some Cerambycidae (Col.) from North, 287; two scarce Staphylinidae (Col.) from North, 60
Ward's (J.D.) records of *Osmia xanthomelana* (Kirby, 1802) (Hym., Megachilidae) at Grange-over-Sands (VC 69) in 1920 and 1924, 22
Worcestershire, *Eucnemis capucina* Ahrens 1812 (Col., Eucnemidae) at three sites in, with a remarkable beetle on *Quercus cerris* L. at one site, 187

SPECIAL INDEX

New genera and species, etc., are indicated by heavy type; genera and species new to Britain by an asterisk (*).

ARACHNIDA

Atomus inexpectatus, parasiticus, 175
Linyphia triangularis, 90
Podapolipus, 175
spiders, 54
Zodarium frenatum, 63

COLEOPTERA

Abax parallelepipedus, 67
Abdera biflexuosa, 193; quadrifasciata, 194
Abraeus globosus, 190
Acrotrichis montandoni, 190
Acupalpus dorsalis, 30
Adalia bipunctata, 308
Aderus populneus, 189, 194
Aeletes atomarius, 188, 190
Agaricophagus, 260; cephalotes, 208, 261–2; conformis, 262
Agathidiini, 205–6, 211
Agathidium, 209, 213, 219–33; affine, 232; arcticum, 209, 220–4; atrum, 216, 219, 220–2, 226; badium, 216, 220, 226, 231–2; clypeatum, 227; confusum, 220–2, 225, 227; convexum, 209, 220, 225, 228; ferrugineum, 218, 223; globus, 232; globosum, 219, 228; kashmirense, 209; kumaonicum, 209; laevigatum, 216, 220–2, 226, 230–3; lycogalae, 206, 228; mandibulare, 229–30; marginatum, 220–1, 225, 230; nigrinum, 220–4, 232; nigripenne, 216, 219–21, 225, 229–30; orbiculare, 232; piceum, 227–8; plagiatum, 220; pumilum, 230; reitteri, 228; rhinoceros, 223; rotundatum, 30, 209, 220, 222, 225, 227–9; rufipes, 230; seminulum, 216, 220, 223, 226, 230–1; sphaerulum, 228; staphylaeum, 223; varians, 190, 220, 222, 224–6
Aglyptinus agathidioides, 262–3; laevis, 262
Agonum assimile, fuliginosum, muelleri, 67; piceum, thoreyi, 29
Ahasverus advena, 192
Aleochara bipustulata, 191; lanuginosa, 68; lygaea, 191; obscurella, 90; sparsa, 191
Alosterna tabacicola, 288
Alphitophagus bifasciatus, 188
Amara ovata, 67
Amphicyllis, 213, 218–9; ferrugineum, 205; globus, 215–6, 229; ruficolle, 205
Anaglyptus mysticus, 194, 288
Anaspis humeralis, 194
Anatis ocellata, 30
Anisotoma, 208, 213–8, 233; algirica, 255; anglica, 247; armata, axillaris, 205; badium, 256; bicolor, 255; blanchardi sp group, 213; brunnea, 253; brunneum, 253, 257; calcarata, 249; c. f. nigricans, 250; castanea, 209, 213–6; ciliaris, 239; cinnamomea, 247; clavicornis, 255; curta, 248; curvipes, 243, 249; davidiana, 255; dentipes, 261; flavescens, 250; flavicornis, 257; furva, 240; geminata sp group, 213; glabra, 209, 213–8; glabra sp group, 213; grandis, 247; humeralis, 209, 213, 215–7; humeralis sp group, 213; longipes, 248; lucens, 247; lunicollis, 243; macropus, 249; minutum, 260; nigrita, 233, 257; obesa, 255; oblonga, 247; orbicularis, 213–4, 216; ornata, 253; ovalis, 254; parvula, 257; pauxilla, 260; picea, 247–8; plasmodiophaga, 209; punctatum, 266; punctulata, punctulatum, 253; rotundatum, 228; scita, 233, 254; seminulum, 216; silesiaca, 240; similata, 256; spinipes, 267; staphylaeum, 220, 223; stenocorphyre, 250; suturalis, 263; trepkei, 243; tuberis, 244
Anisotomiini, 205, 211
Anobium, 189; punctatum, 68, 192
Anotylus rugosus, 67; sculpturatus, 90
Anthonomus britannus, 263; pedicularius, 31
Anthrenus fuscus, verbasci, 290
Aphodius borealis, depressus, fasciatus, 68; granarius, 191
Aridius nodifer, 290
Asemum striatum, 287
Aspidiphorus orbiculatus, 209
Atheta atrementaria, connamoptera, 68; euryptera, 191; fungi, 286; graminicola, harwoodi, 191; ischnocera 68; macrocera 60; muscorum, 286; nigra, 191; occulta, 286; puncticollis, 60; triangulum, 191
Athous haemorrhoidalis, 191; hirtus, 68
Atrecus affinis, 30
Attagenus pellio, 192

Autalia puncticollis, 68
Azya luteipes, 2
Barynotes moerens, 68
Barypeithes pellucidus, 194
Bembidion aeneum, 29; bruxellense, lampros, 67; stephensi, 29
Bibloplectus tenebrosus, 72
Bledius subterraneus, 30
Brachypterus glaber, 68
Bradycellus sharpi, verbasci, 67
Broscus cephalotes, 93
Byrrhus pilula, 68
Bythinus macropalpus, 30
Cafius fucicola, xantholoma, 90
Calathus cinctus, 29; fuscipes, 67; melanocephalus, mollis, 29
Cantharis cruachana, cryptica, figurata, pallida, rustica, 30
Carabus arvensis, granulatus, nemoralis, 67
Carpelimus bilineatus, 90
Carpophilus marginellus, 192
Cercyon atomarius, haemorrhoidalis, 67; lateralis, 190
Cerylon ferrugineum, histeroides, 193
Chrysolina staphylaea, 68
Cionus spp., 200
Cis bilamellatus, boleti, hispidus, micans, pygmaeus, 193
Clambidae, 212
Cleonus piger, 31
Clivina fossor, 67
Clytus arietis, 288
Coccinella septempunctata, 175
Colenis, 260–2; aciculata, dentipes, 261; immunda, 208, 261–2, 266; laevis, 262
Colon brunneum, 91; dentipes, zebei, 91–2
Corticaria elongata, 193
Cosmopolites sordidus, 133
Cossonus, 189
Creophilus maxillosus, 90
Cryptarcha strigata, 192
Cryptolaenus montrouzieri, 2
Cryptophagus distinguendus, laticollis, 192; pallidus, 30; pseudodentatus, saginatus, scanicus, scutellatus, 192
Ctesias serra, 192
Curculio salicivorus, 68
Cychrus caraboides, 67
Cypha hanseni, imitator, 191
Cyphoceble (s.g.) 209, 219–20
Cyphon coarctatus, 30; hilaris, 68
Cyrtusa, 207, 259; minuta, pauxilla, vittata, 207
Dacne bipustulata, 193
Deleastera dichrous, 90
Dendrophilus punctatus, 190
Denticollis linearis, 191
Dexiogyia corticina, 191
Dianous coerulescens, 90
Dicerca, 201
Dorcus parallelipipedus, 191, 193
Dromius meridionalis, quadrimaculatus, 190
Dropephylla gracilicornis, 60; grandiloqua, 30; ioptera, 60, 190
Elaphrus cupreus, 67
Ephistemus globulus, 193
Epuraea aestiva, fuscicollis, unicolor, 192
Eucnemis capucina, 187–8, 192
Euplectus karsteni, 191
Eurythyrea, 201
Gabrius coxalis, 191; keysianus, 30, 90; pennatus, 191
Galerucella nymphaeae, pusilla, 31
Gastrophya viridula, 68
Geotrupes stercorarius, 68, 191
Glischrochilus hortensis, 286
Gnathoncus nanus, 190
Grammoptera holomelina, 287; ruficornis, 288
Grynobius planus, 192
Grypus equiseti, 31
Gyrophaena pulchella, 176
Haploglossa gentilis, 189, 191
Harpalus attenuatus, 29
Helocrus, 290
Hemicoelus fulvicornis, 192
Heterocerus fusculus, 30
Hister merdarius, 190; striola, 67; unicolor, 286
Hydnobiini, 207, 263
Hydnobius, 207, 263, 266–8; latifrons, 207, 262, 264, 266; perrisii, 263; punctatissimus, 207; punctatus, 210, 256, 264–7; spinipes, 207, 264, 266–8; strigosus, 266
Hydrosmecta eximia, thinobioides, 30
Hypera arator, 68; dauci, 31
Hylesininae, 304
Hylesinus, 304
Ipinae, 304
Ischnodes sanguinicollis, 191
Ischnoglossa turcica, 191
Ischnomera cyanea, 194
Judolia cerambyciformis, 288
Lathrobium geminum, 67
Leiodes, 210, 213, 233–259; aciculata, 261; algirica, anglica, 206; arenaria, 206, 239; armata, axillaris, 217; badia, 206, 236–8, 246, 256; brunnea, brunneum, calcarata, 206; carpathica, 233; ciliaris, 87, 206, 237, 239–40,

242, 252; cinnamomea, 206, 208, 234–5, 241, 244–7; clavicornis, 206, 234, 256; curta, curta v. donisthorpei, 206; curvipes, 206–7, 249; davidiana, 206; dubia, 206, 236, 255–6, 258–9; dubia v. bicolor, d. v. subglobosa, 206; 'dubia' 208; dyllwynii, 206; ferruginea, 206, 236–8, 245, 254–5; flavescens, 206, 236–7, 239, 250–3; flavicornis, 206, 257, 266; furva, 88, 206, 235, 237, 239–40, 242, 256; gallica, 206, 236–8, 245, 253–4; grandis, 206; gyllenhali, 206, 236, 246, 257; latifrons, 266; litura, 206, 236–7, 239, 251, 253; longipes, 206, 236–7, 242, 248; lucens, 206, 235, 237–8, 241, 247–8; lunicollis, 206, 235, 237, 242–3; lycoperdi, 206, 244; macropus, 206, 236–7, 239, 249–50; ?maritima, 206, 249; maxillosa, 206, 255; ?nigricollis, 206, 254; nigrita, 206, 236–8, 244, 246, 257; obesa, 206, 208, 236–7, 254–6; oblonga, 206, 234–5, 241, 247; ornata, ovalis, 206; pallens, 87–9, 207; parvula, 206–7; picea, 206, 208, 210, 234, 236–7, 242, 248, 252; polita, 206, 236–8, 249; punctatissima, 266; punctatissimus, 207; punctulata, 206; rotundata, 87–8, 207, 243; rubiginosa, 88, 207, 243–4; rufipennis, 30, 206, 208, 234, 236–7, 245, 254–6, 258; rugosa, 206, 235, 237, 239–41; scita, 206; silesiaca, 206, 235, 237, 240–3; similata, 206; stenocorphyre, 206, 250; stephensi, 206, 244; strigipenne, 206, 236–7, 246, 257, 262, 266; ?suturalis, 206, 255, 259; ?testacea, 206, 255, 258–9; thoracica, 206, 255; triepkei, 207, 235, 237–8, 240, 243–4; tuberis, 206; vittata, 260
Leiopus nebulosus, 194, 288
Leistus rufescens, 67
Leperisinus, 304
Leptinus testaceus, 211
Lesteva punctata, 90
Liocyrtusa, 233, 259–60; minuta, 207, 211, 246, 259–60; pauxilla, 207, 260; vittata, 207, 246, 259–60
Liodes, 205–6, 213, 233; algirica, 255; curta v donisthorpei, 248; curvipes, 206, 249; dubia, 255; dubia v bicolor, d. v subglobosa, 255; gallica, 253; scita, 257; stenocorphyre, 250; subglobosa, 255
Liodopria serricornis, 212
Litargus connexus, 193
Lithostygnus serripennis, 193
Megarthrus depressus, 67
Megasternum obscurum, 67
Melanotus villosus, 191
Melasis buprestoides, 192
Meloe violaceus, 68
Monotoma testacea, 192
Mycetaea subterranea, 193
Mycetophagus multipunctatus, 193; populi, quadriguttatus, 189, 193
Mycetoporus rufescens, 30
Nacerdes, 189
Nebria brevicollis, 93
Necrodes littoralis, 67
Neobisnius procerulus, 30
Neoceble (s.g.) 209, 219–20
Nitidula tectus, 68
Notiophilus germinyi, 67
Octotemnus glabriculus, 193
Olibrus liquidus, 30
Oligota inflata, parva, picipes, 191
Olla abdominalis, v-nigrum, 2
Omalium laeviusculum, 67; riparium, 90
Omosita depressa, 68
Oosphaerula (s.g.) 233–4, 256–8
Orthoperus atomus, mundus, 193
Othius punctulatus, 90
Otiorhynchus ovatus, 31; singularis, sulcata, 68
Oulema, 175
Paralister neglectus, 67
Paromalus flavicornis, 190
Phalacridae, 212
Perapion [Parapion lapsus] 289
Philonthus cephalotes, concinnus, decoratus, 68; fimetarius, 68, 191, 286; laminatus, 68, 286; mannerheimi, micantoides, 30; politus, 286; sanguinolentus, 191; tenuicornis, 30; varius, 286
Phloeophagus lignarius, 194
Phloeophilus edwardsii, 192
Phloeophora corticalis, testacea, 191
Phyllobius argentatus, maculicornis, 194; oblonga, 31; pomaceus, 68; pyri, 194
Phytobius quadrituberculatus, 68
Platypodidae, 303
Platyrhinus resinosus, 188
Plegaderus dissectus, 190
Pogonocheirus hispidulus, hispidus, 288
Polydrusus cervinus, 194; pterygomalis, 68; pulchellus, p. ab insquamosus, 31
Polygraphus griseus, poligraphus, punctifrons, 304
Prionus coriarius, 287
Prionychus melanarius, 193

Pseudocistela ceramboides, 193
Pseudoliodini, 207, 211, 260–2
Pseudotriphyllus suturalis, 193
Psylloides marcida, 31
Ptenidium laevigatum, pusillum, 190
Pterostichus niger, 93; nigrita, 67; rhaeticus, 29, 67
Ptilinus pectinicornis, 192
Ptiliolum spencei, 190
Ptinella aptera, 190
Ptinomorphus imperialis, 192
Ptinus sexpunctatus, 304
Quedius brevicornis, cruentus, 191; fumatus, 90; invreae, 30; maurorufus, 90; mesomelinus, microps, 191; molochinus, 68; nitipennis, picipes, 90; tristis, 68; umbrinus, 90; ventralis, 191
Ramphus pulicarius, 68
Rhagium bifasciatum, inquisitor, 287; mordax, 68, 287
Rhagonycha femoralis, 68
Rhinoncus pericarpius, 68
Rhinosimus planirostris, 193; ruficollis, 68
Rhizophagus dispar, 30
Rhobdocnemis obscura, 133
Ryzophagus bipustulatus, perforatus, 192
Saliciphilus, 304
Salpingus castaneus, 31
Scaphidema metallicum, 193
Sciodrepoides fumata, 67
Scolytidae, 303
Scolytoplatypus, 304
Scolytus intricatus, 187, 194
Scotocryptini, 207, 211, 262–3
Scymnus auritus, 193
Sepedophilus testaceus, 191
Silpha atrata, 67; siminulum, 219, 230; polita, 249
Sinodendron cylindricum, 93–4, 191
Sitona griseus, 31; lepidus, 68
Sogda, 207, 263–6; pavlovskii, 263; perrisii, 207; suturalis, 207, 210, 263–6
Sogdini, 207, 211, 263–8
Soronia grisea, punctatissima, 192
Sphaeridium atrum, 232; ferrugineum, 254; globum, 218; humeralis, 217; immundum, 261; lunatum, 30; nigripenne, 229; ruficolle, 218; rufipenne, 255; scarabaeoides, 67
Stegobium paniceum, 304
Stenagostus rhombeus, 191
Stenocorus meridianus, 287
Stenolophus mixtus, 30
Stenostole dubia, 289
Stenus guttula, guynemeri, 90; providus, rogeri, 67; subaeneus, 190
Stereocorynes truncorum, 194
Strangalia maculata, quadrifasciata, 288
Strophosomus faber, sus, 31
Subcoccinella vigintiquattourpunctata, 311–2
Symbiotes latus, 193
Synuchus nivalis, 67
Tachinus elongatus, marginellus, signatus, 68
Tachyporus chrysomelinus, dispar, nitidulus, 68
Taphrocoetes, 304
Taphrorychini, 304
Taphrorychus, 304
Tenebrio molitor, 304
Tetratoma castanea, 214; cinnamomea, 244; fungorum, 30, 193; orbicularis, 214
Tetropium gabrieli, 287
Thamiaraea hospita, 191
Thamnurgini, 304
Tillus elongatus, 192
Tipnus unicolor, 68
Triarthriini, 263
Triarthron, 207, 263, 268; maerkeli, 207, 210, 264, 268
Trichohydnobius, 207, 263
Trichophya pilicornis, 90
Trichosphaerula (s.g.), 206, 233, 257
Triplax russica, 193
Tritoma glabra, 213, 217
Typhaea stercorea, 193
Volvoxis dubia, 255, 258; seminulum, 214
Xantholinus angularis, 190; glabratus, 67
Xyleborini, 304
Xyleborus, 304; saxeseni, 194
Xyloterus domesticus, 188

DIPTERA

Acaenotus, 138
Acridophagus, 117–8
Acroceridae, 95, 97, 99–100, 102, 114, 119, 121
Alloagrapta obliqua, 2
Alloleptis, 110, 118, 121, 133; tersa, 110
Alloxytropus, 138–9
Anabarhynchus innotatus, 138
Anapausis, 51
Apiocera, 100, 104, 115–6, 119–20, 141; aldrichi, 115; haruspex, 105
Apioceridae, 95, 97, 102–4, 115, 117, 119–21, 141
Apsilocephala, 100, 116, 125, 142; longistyla, 105
Apsilocephalidae, 95–6, 98, 100, 102, 108,

116, 119, 121–3, 128, 130–2, 138, 142, 145
Apystomyia, 100, 115, 138–43; elinguis, 140, 144
Apystomyiidae, 95–6, 104, 115, 117, 119, 121, 138–9, 141, 143
Aricia flavifrons, pruinosa, 18
Arthroceras, 107, 121
Arthropeas, 107
Arthroteles, 107, 121
Asilidae, 95–6, 100, 102, 104, 116–7, 119–23, 125, 130, 141
Asiliformia, 104
Asilinae, 104, 116
Asiloidea, 95–9, 105, 108, 118–9, 121, 128–32, 135, 138
Asilotabaniform group, 101
Asymphyloptera, 126
Atelestidae, 126
Athericidae, 96–7, 99, 104, 107, 110, 113, 121, 133–6
Atherimorpha, 107, 110–1, 113, 118, 121; bevisi, 111; ornata, 112
Atherix basilica, ibis, 107
Atomosiini, 119
Atriadops, 95, 114, 119, 121–2
Austroleptis, 95, 102, 104, 110, 118, 121, 132–3; rhyphoides, 106, 133; sp. 110
Bequaertomyia, 113
Beridinae, 130
Beris, 123
Blera fallax, 295
Bolbomyia, 92, 102, 113, 121, 134–5; sp. 134
Bombyliidae, 95–6, 99, 102, 105, 114, 117–9, 121, 136, 139, 141
Bonjeania, 115, 117–8
Brachicheta strigata, 310
Brachycera, 95–148
Brachystomatinae, 123
Caenotoides, 138–40
Caenotus, 115, 117, 119–21, 125, 138, 140; hospes, mexicanus, minutus, 119, 124; sp. 105
Callicera aenea, 47
Callomyia, 127
Caricea atra, 298
Chamaemyiidae, 76
Chiromyziinae, 130
Chrysopilus, 121; erythrophthalmus, ferruginosus, torrentium, 133
Chyliza annulipes, leptogaster, nova, scutellata, 15
Clesthentia, 116, 125, 142
Clesthentiella, 142
Clinocerinae, 123, 126
Coenomyiidae, 96–7, 107–8, 110, 113
Coenosia alleni, infantula, tricolor, 298
Colobostema *infumatum, 73–4; nigripenne, 74; triste, 73
Corynoptera *stammeri, 73
Ctenophora pectinicornis, 188
Cyclopsidea, 121
Cyclorrhapha, 95–9, 104, 106, 117–8, 123, 126–8, 130, 143, 145
Cyclotelus, 114
Dasyomma, 104
Dasypogoninae, 104
Dasysyrphus arcuatus, 305; hilaris, venustus, 305–9
Delia abstracta, 21; cardui group, 20; carduiformis, coronariae, 21; flavidipennis, 17; flavifrons, 18; fulvipositicrus, interflua group, 21; judicariae, 18; kullensis, 17, 19–21; kumatai, linearis, pansihirta, parvivitra, 21; pruinosa, 17–9, 21; radicum group, 20; rubiginans, 18; spicularis, 21
Desmatomyiinae, 136
Dioctria baumhaueri, hyalipennis, 10
Dipsomyia, 126
Diptera, 48, 198
Dolichopodidae, 95–6, 126, 143
Drino lota, 310
Empididae, 95–6, 117, 126, 143
Empidiformia, 97
Empidinae, 123, 126
Empidoidea, 95–104, 116, 118, 122–3, 126–8, 130–1, 143, 145
Empis borealis, 117
Eremoneura, 97, 99–101, 108, 116–8, 121–7, 129–32, 142
Eulonchus smaragdinus, 114
Exeretonevra, 99, 104, 106, 132; maculipennis, 107
Exeretonevridae, 95–7, 106–7, 132
Fannia aequilineata, armata, gotlandica, latipalpis, serena, subsimilis, 298
Ferdinandea cuprea, 192
Glabellula arctica, 102, 137
Glutops, 108, 113, 122, 134
Graphomya maculata, picta, 298
Gymnorhachicerus, 110
Hemerodromiinae, 123
Henicomyia, 104, 115
Heterodactyia, 97, 99–101, 132
Heteromydas, 115; bicolor, 120
Heteropogon nubilus, sp., 105
Heterostomidae, 95–7, 106–7, 109, 118, 129, 132
Heterostomus, 106–7, 110, 132; curvipalpis, 107

Heterotropinae, 95, 136
Heterotropus, 100, 102, 136; senex, 136
Hilarimorpha, 100, 114, 135–6, 139, 142–3; ditissa, 144
Hilarimorphidae, 95–6, 102, 104, 114, 117, 119, 121, 135–6, 138–9, 143
Hirmoneura, 114, 118–9, 121–2; exotica, 114
Holopogon, 116; japonicus, 124
Hormopeza, 126–7
Hybomitra, 107, 125
Hybotidae, 126
Hybotinae, 123
Hydrotaea nidicola, 298
Hylemyia kullensis, 19
Ibisia marginata, 113
Iteaphila, 126
Jackhallia, 138
Lampromyia, 104, 107, 113, 130–1; brevirostris, 131; intermedia, 135; pallida, 131
Laphria flava, 295
Lasiopogon cinctus, 105
Leopoldius brevirostris, signatus, 90
Leptogaster, 123
Leucopis, 76
Litoleptis, 132–3
Macroceromys, 108
Megascelus, 141
Microdon mutabilis, 22
Microphoridae, 126
Molobratia, 116, 125; kanoi, 124
Musciformia, 97
Muscoidea, 97
Muscomorpha, 97, 99–101, 104, 119–20, 126, 132
Mydas, 115
Mydidae, 96–7, 100, 102–4, 115–7, 119–21, 141
Mythicomyiinae, 95, 100, 117, 136–7
Nematocera, 95, 98–9, 104, 126, 129
Nemestrinidae, 95–7, 99, 102, 114, 118–9, 121–2, 135
Nemestrinoidea, 95–101, 104, 108, 117, 119, 128–32, 135
Nemomydas, 115; gruenbergi, 95, 120
Neorhagio, 107, 110, 118, 121
Neorhaphiomidas, 141; hardyi, 120
Neosciara stammeri, 73
Norellia spinipes, tipularia, 54
Nycterimyia, 95, 114, 118–9, 121–2, 127
Ocydromiinae, 123
Opetiidae, 127
Oreogetoninae, 123, 126–7
Orthogenya, 97, 117
Orthorrhaphous Brachycera, 145
Oscinomorpha sordidissima, 68
Ozodiceromyia, 114
Palaeoptiolina, 142
Pangoniinae, 120
Pantophthalmidae, 96–7, 99–100, 104, 107–9, 117, 119–21, 128, 130–1
Pantophthalmus tabanicus, 109
Paradrestiinae, 95, 130
Parapherocera montana, 139
Pegomya exilis, hyoscyami complex, 17
Pelecorhynchidae, 96–7, 99, 108, 110, 113, 121–2, 130, 132–5
Pelecorhynchus, 113, 122
Penniverpa, 104
Philonicus, 104
Phorcida lota, 310
Phycinae, 95, 103, 137
Platypezidae, 117, 127
Pleroneura, 97, 100–1, 104, 117, 123, 129
Proagomyia, 126
Probolbomyia, 142
Prorates, 117–8, 138–9
Proratinae, 95, 103–4, 115, 117, 119, 121, 125, 138–41
Prosopantrum flavifrons, 310
Protempididae, 143
Protempis antennata, 143
Pseudoerinna, 107, 113, 122, 134
Psilocephala imberbis, 137
Psiloderini, 136
Pteroneura, 97, 101, 104
Ptiolina, 121, 133; nervosa, shimai, sphaeralis, 106
Rachiceridae, 96–7, 106, 108–9, 117–8, 122, 129
Rachicerus, 104, 106, 110, 119, 131
Rhagina, 107, 110, 118, 121
Rhagio, 121
Rhagionempididae, 142–3
Rhagionempis, 142
Rhagionidae, 95–7, 99, 102, 104, 106–7, 110, 113, 118, 121, 130–2, 133–5, 138
Rhaphiomydas, 141
Rhegmoclema basilewskyi, 53; enderleini, 51, leleupi, 51, 53; **mossi**, 51–3
Scaeva hilaris, 305
Scatopse infumata, 73
Scenopinidae, 95–6, 100, 102–4, 115, 117–21, 125, 129–30, 137–41
Scenopininae, 140
Scenopinus, 121, 125, 139; fenestralis, 105; glabrifrons, 115, 121, 125
Schizella, 121
Scylaticus, 116; degener, 124
Solomomyia, 121
Soiva, 119, 121–2; flavoscutellaris, 108–9;

procera, 108–9, 119
Spania, 104, 107, 121, 133
Spaniopsis, 107, 121, 133
Stichopogon, 116; gracilifemur, infuscatus, 122
Stilpon sublunata, 176
Stratiomyidae, 95–7, 99, 107–8, 117, 119, 121–3, 128–30
Stratiomyoidea, 96–7, 100, 104, 108–9, 121, 128–31
Stratiomyomorpha, 99, 101, 104, 119–20, 129
Suragina uruma, 107, 113
Symphoromyia, 121
Syrphus ribesii, 127, 308; vitripennis, 308
Tabanidae, 96–7, 99, 107, 113, 120–1, 123, 125, 131, 133–5
Tabanoidea, 96–8, 100, 103, 105, 107–9, 117, 119, 121, 128–9, 131–2, 133, 135
Tabanomorpha, 97, 99–101, 104, 119, 129, 142
Therevidae, 95–6, 100, 102–5, 114, 117–9, 121–3, 125, 129–30, 135, 137–9, 141–2
Therevinae, 103, 137
Tongamya, 141
Toxophora, 121
Trichopezinae, 123
Trichophthalma, 114, 118–9; barbarossa, 114
Ussatchovia, 142
Vermileo, 107, 131; comstocki, 113, 131, 135; vermileo, 130
Vermileonidae, 95, 97–9, 104, 107–8, 113, 117, 119, 121, 128, 130–3, 135, 145
Vermileomorpha, 97, 101, 104, 129
Vermiparus (s.g.) 131
Wagneria gagatea, succincta, 176
Xylomyidae, 96–7, 99, 107–8, 117–23, 125, 128–9, 131
Xylophagidae, 95–8, 100, 104, 106–7, 119, 121, 128–32, 135
Xylophagoidea, 96–7, 107–8
Xylophagomorpha, 97, 99, 133
Xylophagus, 104, 106

HEMIPTERA

Aclerda subterranea, 199
Adarrus multinotatus, 154–8, 160–4, 166–72; ocellaris, 170–1
Aepophilidae, Aepophilus, 76
Agallia ribauti, venosa, 156–8, 170
Alydidae, xxi
Anthocoridae, 76
Aphrodes albifrons, 156–9, 161, 164, 170; bicinctus, 156–8, 170; bifasciatus, 156–8, 160, 164, 170–1; flavistriatus, 156, 160, 164, 170; serratulae, 170
Aphrophora alni, 156–7, 170
Arboridia parvula, 170
Arocephalus punctatum, 170
Arthaldeus pascuellus, 156–8, 160, 165, 170
Asiraca aequinoctialis, clavicornis, 50
Auchenorrhyncha, 151–75
Balclutha punctata, 170
Batracomorphus irroratus, 156–8, 170–1
Bryocorinae, 76
Camptopus, 76
Cercopis vulnerata, 156–7
Ceratocombidae, Ceratocombus, 76
Chorizococcus kandyensis, 1
Cicada clavicornis, quadristriata, 50
Cicadula persimilis, 170
Ciliometra femorata, 58; **hirsuta**, 55, 59–60; kiunga, 57–8; **priori**, 55–8
Cimex, 76; aequinoctialis, 49–50; meriopterus, 49
Cimicidae, 76
Cimicimorpha, 76
Conomelas anceps, 170
Coreidae, xxi
Criomorphus albomarginatus, 156–7, 159–60, 163, 167, 172–3
Dactylopius ceriferus, 8; dasylirii, 1, 8; magnolicida, 8; quaintancii, 6; segregatus, 8; setosus, 7–8; talini, virgatus, v. farinosus, v. humilis, 8
Delphacinus mesomelas, 156, 170
Deltocephalus pulicaris, 170
Dicranotropis hamata, 156, 160, 167, 170
Dicyphinae, 76
Dikraneura variata, 156–7, 170
Diplocolenus abdominalis, 156–8, 160, 163, 165, 170, 173
Dipsocoridae, 76
Dipsocoromorpha, 76
Doratura stylata, 156–60, 164–5, 170, 172
Elasmostethus liturata, picta, tristriatus, 314
Elasmucha grisea, 314
Elymana sulphurella, 156–8, 160, 170
Emelyanoviana mollicula, 170
Enicocephalomorpha, 76
Esakia, 55
Euheteroptera, 76
Eupelix cuspidata, 170
Eupteryx notata, 170
Eurysa lineata, 156, 159
Euscelis incisus, 156–9, 161, 163–5, 170, 172; lineolatus, 170

Evacanthus interruptus, 170
Ferrisia, 1–9; claviseta, 3–4, 7; consobrina, 1–2, 5; floridana, 3–4; kandyensis, 1, 3–4; lobdellae, 7; malvastra, 1, 3, 5, 7; malvastrus, 1; meridionalis, 3, 5; multiformis, 3, 6; neovirgata, 1, 3, 6; quaintancei, 6; quaintancii, 1, 3–4, 6; setosa, 3, 7; terani, 3, 7–8; virgata, 1–3, 5, 8–9
Ferrisiana, 3; claviseta, floridana, 4; quaintancei, 6; setosa, 7; virgata, 8
Forcipata citrinella, 170
Graphocraerus ventralis, 156–8, 160, 164–5, 170, 172
Graptopeltus lynceus, 16
Heliococcus malvastrus, 5
Hemiptera, Heteroptera, 75
Heterotoma meriopterum, 49
Hyledelphax elegantulus, 156–7, 159–60, 163, 167, 170, 173
Jassargus distinguendus, 170
Javesella pellucida, 156–7, 159–60, 163, 167, 170
Kelisia guttula, 170; vittipennis, 156–7, 159, 167, 172
Kosswigianella exigua, 170
Lasiochilus, Lasiochilidae, 76
Lyctocoris, Lyctocoridae, 76
Macrosteles laevis, 170; sexnotatus, 156, 158, 166, 170–1; viridigriseus, 170–1
Macustus grisescens, 156–8
Megophthalmus scancius, 156–8, 170
Metopolophium dirhodum, 173
Metrobatopsis, 55
Micromyzella, 16
Miridae, 76
Mocydia crocea, 156–60, 163–6, 170–2
Mocydiopsis attenuata, 156, 158, 170–1; parvicauda, 171
Muirodelphax exiguus, 170
Mullerianella fairmairei, 170
Nabis, 175
Neoheteroptera, 76
Neophilaenus campestris, exclamationis, 170–1; lineatus, 156–7, 163, 170
Notonecta glauca, 46; halophila, 45–6; maculata, marmorea, viridis, 46
Orthotylinae, 76
Paluda adumbrata, 156–8, 160, 164, 166, 170–2; flaveola, 156, 158
Panheteroptera, 76
Paoliella, 16
Pentatoma, Pentatomomorpha, 76
Periphyllus obscurus, 185–6
Philaenus spumarius, 156–7, 163, 170
Phylinae, 76
Pilophorini, 76
Psammotettix confinis, 156, 158, 160, 166, 170–1
Pseudococcus bicaudatus, 8; kandyensis, 4; marchali, 1, 8–9; quaintancii, 6; virgatus v. madagascariensis, 8
Pyrrhocoridae, xxi
Recilia coronifera, 170
Rhopalidae, xxi
Rhytistylus proceps, 156–8, 160, 164–5, 170–2
Ribautodelphax angulosus, 171
Sitobion, 16
Stenocephalidae, xxi
Stenocranus minutus, 156–7, 160, 163–4, 167, 170, 172
Streptanus aemulans, 156, 158, 170; sordidus, 156, 170
Struebingianella dalei, 170–1
Trionymus claviseta, 4; setosus, 7
Turrutus socialis, 154–64, 166–8, 170–1
Ulopa trivia, 171
Zyginidia scutellaris, 156, 158–60, 166, 170–1

HYMENOPTERA

Aculeate Hymenoptera, 290
Ammophila, 76; furcata, plumipes, 37
Anagyrus orbitalis, 199
Ancistrocerus oviventris, parietinus, trifasciatus, 37
Andrena cineraria, 37; denticulata, 37–8; falsifica, 37, 39; fucata, 37; fulva, 22, 37; fuscipes, haemorrhoa, 37–8; lapponica, nigroaenea, 37; barbilabris, 37; pilipes, 37, 39; ruficrus, 291; saundersella, 37; scotica, 38; wilkella, 37
Anthophora furcata, plumipes, 37
Apis mellifera, 38, 286
Apotetrastichus postmarginalis, 200
Aprostocetus diversus, eurytomae, gratus, pausiris, 200
Arachnospila anceps, spissa, 37
Argogorytes mystaceus, 37
Asaphes suspensus, 199
Aschitus bicolor, subterraneus, 199
Baryscapus crassicornis, galactopus, mucronatus, 200
Belaspidia nigra, 198
Bombus lapidarius, 38; lucorum, 36; pascuorum, pratorum, terrestris, 38
Bruchophagus, 201; aspilus, 199; bajariae, 199, 201–2; sp. ? near jaceae, 199
Calosota obscura, 199

Camponotus aethiops, piceus, 198
Cataglyphis bicolor, 63; cursor, 198
Ceranisus menes, 177–9, 181; pacuvius, 177–81
Cerapterocerus mirabilis, 199
Cerchysius subplanus, 199
Chalcis nitidula, 285
Cheiloneurus elegans, 199
Chelonus olgae, 200
Chelostoma florisomne, 37
Chrysis angustula, 37; austriaca, 292; cyanea, ignita, impressa, rutiliventris, 37
Chrysocharis ? phryne, 200
Chrysoideus (s.g.) 285–6; chrysidiformis, fere-niger, 285
Chrysura austriaca, 292; hirsuta, 292–3, 297
Cleptes semiauratus, 39
Colletes daviesanus, 37; floralis, 291; succinctus, spp., 38
Crabro cribrarius, 36–7; peltarius, 37
Crematogaster auberti, 198
Crossocerus annulipes, cetratus, dimidiatus, 37; leucostoma, 295; megacephalus, 37; ovalis, 37–8; pusillus, quadrimaculatus, tarsatus, 37
Cynips coriaria, infectoria, pomaceus, tinctoria-nostras, 285
Diglyphus poppoea, 200
Dipogon nitidus, 37–8; variegatus, 37
Discodes ? encopiformis, 199
Ditropinotus aureoviridis, 199
Dolichovespula, 286; sylvestris, 36
Ectemnius cavifrons, 37; ruficornis, 37, 39
Elasmus sp., 200
Embolemus ruddii, 204
Entedon zancera, 200
Epeolus, 38; cruciger, variegatus, 37
Ericydnus strigosus, 199
Eupelmus microzonus, 199
Eupteromalus sp., 201, 203
Eurytoma bajarii, longicalcar, 201; rosae, 199
Euura amerinae, 33–4
Evagetes crassicornis, 37
Formica fusca, 36; rufa, 184; rufibarbis, 290
Glyphomerus stigma, 199
Gorytes quadrifasciatus, 37
Halictus, 38; rubicundus, 37, 43; tumulorum, 37–8
Haplometrobius (s.g.) mendax group, 273–80; prominulus group, surinamensis group, 23
Hockeria sp., 198
Homoporus biroi, 199
Hoplitis claviventris, 32
Hylaeus, 38; brevicornis, 37, 39; communis, hyalinatus, 35
Hyssopus pallidus, 200
Ichneumon cynipedis, 33; cyniphidis, 33–4
Lasioglossum, 38; calceatum, 37, 43; cupromicans, 43; flavus, 36; fratellum, 37; fuliginosus, 36; lativentre, 39; leucopum, leucozonium, punctatissimum, 37; quadrinotatum, 39; rufitarse, 37; villosulum, 37–8
Lasius, 184; flavus, 299; fuliginosus, 36; niger, *platythorax, 299–303
Leptogenys chinensis, 65
Leptomastix epona, 199
Leptothorax acervorum, 36; niger, 198; nylanderi, 184; spp., 66
Lindenius albilabris, 37
Lonchodryinus ruficornis, 204
Macroneura falcata, seculata, vesicularis, 199
Megachile centuncularis, versicolor, 37
Mellinus arvensis, 37; sabulosa, 37–9
Mercetencyrtus ambiguus, 199
Mercetina longicauda, 199
Mesopolobus citrinus, cyniphidis, 34; laticornis, 200; longicollis, 34
Messor barbarus, 198; wasmanni, 63–6
Metapolybia azteca, pediculata, 11
Microterys matritensis, 199
Mischocyttarus, 11, 23–8; alienus, 23; carinulatus, flavitarsis, 24; fraudulenti, 23; foveatus, 23–4; guianensis, 24–5; inheringi group, 273; insolitus, 23–4, 28; lecointei, 23–28; mastigophorus, 23; **melanops**, 23, 25–8; mendax, 24, 273–5, 279; metoecus, 23–4, 27–8; montei, 23–4; **montivagus**, 273, 275, 277–8; moralesi, 23; **moronae**, 273, 275, 277; **occultus**, 274–5, 277; **onorei**, 23–7; [pelor], 23; **reclusus**, 274–6, 278–9; stenoecus, 273; surinamensis group, 231; **tectus**, 274–7, 279; tertius, 273; **tunari**, 273–5, 279–80; sp. near tectus, 276
Monoctenus juniperi, 195–6
Monogynoecus (s.g.) 23–8
Myrmecina graminicola, 184
Myrmica, 184; rubra, 299; ruginodis, 36, 299
Neochrysocharis formosa, 200
Neuroterus lanuginosus, 285
Nomada goodeniana, 37; lathburiana, 37, 39; marshamella, panzeri, 37; rufipes, 37–8

Norbanus meridionalis, 200
Notanisus versicolor, 200
Novitzkyanus cryptogaster, 200
Nysson spinosus, 37
Occipitalia sulcata, 11
Omalus auratus, panzeri, 37
Ooencyrtus ? near masii, telenomicida, 199
Ormyrus nitidulus, 285; orientalis, 199; pomaceus, punctiger, 285
Osmia aurulenta, coerulescens, 22; inermis, 291–5; leaiana, 22; parietina, 31–2, 291–2, 295; rufa, 22, 36–7; uncinata, 291; xanthomelana, 22
Oxybelus uniglumis, 37
Oxysychus **magnicollis**, 61–2
Parachartergus smithii, 11–5
Paraphaenodiscus subterraneus, 199
Paravespula germanica, vulgaris, 36
Passaloecus corniger, 37
Pediobius brachycera, sp. [eubius-group], 200
Pemphredon inornata, lethifer, 37; lugubris, 36
Perilitus coccinellidae, 175
Pheidole pallidula, 198
Plagiolepis pygmaea, 198
Pnigalio pectinicornis, 200
Polistes, 11
Polybia occidentalis, simillima, 11
Polynema euchariforme, 200
Priocnemis fennica, parvula, 37; schioedtei, susterai, 37, 39
Psen bicolor, 37–8; dahlbomi, 37; equestris, 37–8; lutarius, 37, 39
Psenulus atratus, 37
Pseudocaromenes alfkeni, a. johnsoni, 183–4
Psilochalcis nigerrima, 198
Psithyrus bohemicus, 38; rupestris, 38–9; sylvestris, 38
Psychophagus, 34; omnivorus, 33
Pteromalus, 34; bedeguaris, 200
Quadrastichus vacuna, 200
Rhopalium clavipes, 37
Rhopus budensis, flavida, 199
Ropalidia romandi, 11
Sigmophora brevicornis, 200
Sphecodes, 38, 43; fasciatus, gibbus, 37; monilicornis, 36–7; puncticeps, 37, 39
Sphegigaster stepicola, 200
Spilomalus quadrinota, 200
solitary wasps, 76
Stephanus serrator, 204
Stichocrepis armata, 200
Tamarixa monesus, 200
Tapinoma erraticum, 198
Tetramorium caespitum, 198
Tetrastichus atratulus, 200
Toechorychus sp., 277
Torymus, 33–4, 285; bedeguaris, 199; chrysocephalus, cynipedis, 34; fulgidus, nobilis, 34
Trichomalopsis submarginata, 200; **tenuicornis**, 201–3
Trypoxylon clavicerum, figulus, 37
Vespa crabro, 37–8; orientalis, 286
Vespula rufa, 36; vulgaris, 286
Xyela julii, longula, 186

LEPIDOPTERA

Aporia crataegi, 313
Arashnia levana, 176
Argynnis adippe, 32, 313
Conistra vaccinii, 176
Cossus cossus, 187
Deiliphila elpenor, 310
ethmiine moths, ix
gelechiid moths, ix
Geometridae, 176
Hamearis lucina, 32
Lycaena dispar, 313
Maculinea arion, 313
Malacosoma neustria, 310
Melanargia galathea, 200
Noctua pronuba, 310
Noctuidae, 176, 310
Papilio machaon, 313
Phlogophora meticulosa, 310
Pieris brassicae, 310
Polyommatus icarus, 200
Pyronia cecilia, 200
Sphingidae, 310
stathmopodine moths, ix
Tortrix viridana, 33

MANTODEA

Amorphoscelidae, Amorphoscelinae, 282
Amorphoscelis annulicornis, 282
Aethalochroa ashmoliana, 283
Blepharodinae, 282
Blepharoropsis nuda, 282
Creobroter pictipennis, urbanus, 283
Deiphobe brunneri, indica, 283
Deiphobella laticeps, 283
Didymocorhypha lanceolata, 283
Empusa pauperata, pennicornis, 282
Empusidae, Empusinae, 282
Eremiaphilidae, 283
Eufischeriella fraterna, 283
Fischeriinae, 283

Heirodula unimaculata, 284
Hestiasula brunneriana, 283
Heterochaetula fissispinus, 283
Humbertiella affinis, indica, 283
Hymenopodidae, Hymenopodinae, 283
Iridopteriginae, 283
Iris tiflisina, 283
Mantidae, 283
Mantinae, 284
Mantis nobilis, 284; religiosa, 284, 286
Odontomantis pulchra, sinensis, 283
Ormomantis indica, sp., 283
Oxyothespinae, 283
Parhierodula coarctata, 284
Photininae, 283
Rhombodera tectiformis, 284
Schizocephala bicornis, 283
Schizocephalinae, 283
Statilia maculata, v. hyalina, 284
Tenodera aridifolia, fasciata, 284
Vatinae, 283

ORTHOPTERA

Metrioptera brachyptera, 299

PHTHIRAPTERA

Eomenacanthus, 71
Gallacanthus, 71
Lanicanthus, 71
Menacanthus abdominalis, agilis, 71; alaskensis, 69; alaudae, 69–71; annulatus, camelinus, 71; carduelis, 69, 71; citrinellae, 69–71; cornutus, curuccae, 71; dryobates, 70–1; eurysternus, exilis, fertilis, fuscocinctus, gonophoeus, inaequalis, laticeps, meleagridis, meniscus, merisuoi, minusculus, minutus, mutabilis, numidae, pallidulus, 71; parviceps, 69, 71; parvulus, 71; perforatum, 69; pici, 70–1; pusillus, pyrrhulae, schildmacheri, serosus, sinuatus, sittae, spiniferus, stramineus, 71; tenuifrons, 70–1
Menopon alaskensis, carduelis, citrinellae, parviceps, perforatum, 69
Neumannia, 71
Pediculus alaudae, 69
Picacanthus, 71
Uchida, 71

THYSANOPTERA

Anaphothrips, 181
Chirothrips, 180
Frankliniella, 180
Kakothrips pisivorus, 177–9, 181
Limothrips, 180
Odontothrips ulicis, 177–80
Taeniothrips inconsequens, 177
Thrips, 180–1

TRICHOPTERA

unspecified, 175

GROUPS OTHER THAN INSECTA AND ARACHNIDA

Aves, 69–71, 187
Chilopoda, 280

ERRATA AND CORRIGENDA

Page	Line	For	Read
23	3 (up)	sini	sinus
160	12	*Palluda*	*Paluda*
165	14 (up)	'any the'	'any of the'
170	19	*Elymara*	*Elymana*
212	27 (up)	Agthidiini	Agathidiini
235	13	(figs 52–55)	(figs 104–5)
305	2 (of title)	... *VENUSTUS* (ZETTERSTEDT) ...	... *VENUSTUS* (MEIGEN) ...
305	2 (of title)	... *HILARIS* (MEIGEN) ...	... *HILARIS* (ZETTERSTEDT) ...
313	last line	In the e-mail address add an 'e' to read: compuserve.com.	

Printed in England by Attwood Dawes Printers, Kettering, Northamptonshire